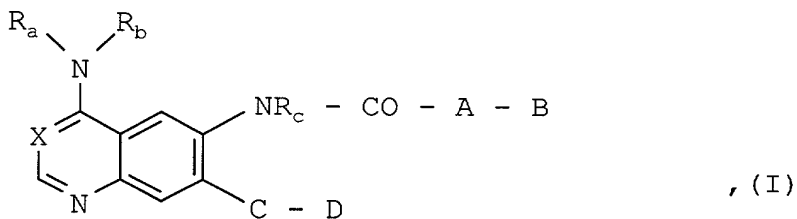
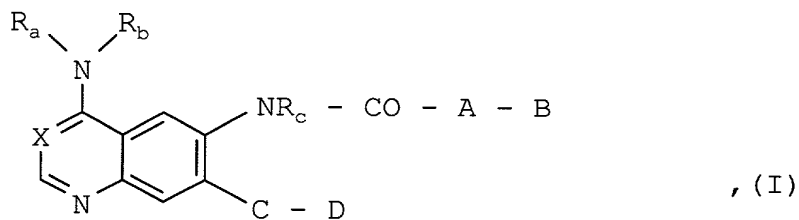


What is claimed is:

1. A compound of the formula

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R<sub>a</sub> denotes a hydrogen atom or a methyl group,

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R<sub>b</sub> denotes a phenyl, benzyl or 1-phenylethyl group, wherein the phenyl core is substituted in each case by the groups R<sub>1</sub> to R<sub>3</sub>, whilst

15

R<sub>1</sub> and R<sub>2</sub>, which may be identical or different, each denote a hydrogen, fluorine, chlorine, bromine or iodine atom,

a methyl, ethyl, hydroxy, methoxy, ethoxy, amino, cyano, vinyl or ethynyl group,

an aryl, aryloxy, arylmethyl or arylmethoxy group,

20

a methyl or methoxy group substituted by 1 to 3 fluorine atoms or

R<sub>1</sub> together with R<sub>2</sub>, if they are bound to adjacent carbon atoms, denote a -CH=CH-CH=CH-, -CH=CH-NH- or -CH=N-NH- group and

R<sub>3</sub> denotes a hydrogen, fluorine, chlorine or bromine atom,

R<sub>c</sub> denotes a hydrogen atom or a methyl group,

5

X denotes a methyne group substituted by a cyano group or a nitrogen atom,

A denotes a 1,1- or 1,2-vinylene group, each of which may be substituted by one or two methyl groups or by a trifluoromethyl group,

10

an ethynylene group, or

a 1,3-butadien-1,4-ylene group optionally substituted by a methyl or trifluoromethyl group,

15

B denotes a hydrogen atom or a C<sub>1-4</sub>-alkyl group, a methyl group substituted by 1 to 3 fluorine atoms, an ethyl group substituted by 1 to 5 fluorine atoms, a C<sub>1-4</sub>-alkylcarbonyl, carboxy, C<sub>1-4</sub>-alkoxycarbonyl, aminocarbonyl, C<sub>1-4</sub>-alkylaminocarbonyl, di-(C<sub>1-4</sub>-alkyl)-aminocarbonyl, pyrrolidinocarbonyl, piperidinocarbonyl, morpholinocarbonyl or a 4-(C<sub>1-4</sub>-alkyl)-piperazinocarbonyl group, or

20

a C<sub>1-4</sub>-alkyl group substituted by the group R<sub>4</sub>, whilst

R<sub>4</sub> denotes a C<sub>1-4</sub>-alkoxy group,

25

an amino group substituted by two C<sub>1-4</sub>-alkyl groups, wherein the alkyl groups may be identical or different and each alkyl moiety may be substituted from position 2 by a C<sub>1-4</sub>-alkoxy- or di-(C<sub>1-4</sub>-alkyl)-amino group or by a 4- to 7-membered alkyleneimino group, whilst in the above-mentioned 6- to 7-membered alkyleneimino groups in each case a methylene group may be replaced in the 4-position by an oxygen or sulphur atom, by a

30

sulphinyl, sulphonyl or N-(C<sub>1-4</sub>-alkyl)-imino group,

a 4- to 7-membered alkyleneimino group optionally substituted by 1 to 4 methyl groups,

a 6- to 7-membered alkyleneimino group optionally substituted by 1 or 2 methyl groups,  
wherein in each case a methylene group in the 4-position is replaced by an oxygen or  
5 sulphur atom, by a sulphinyl, sulphonyl or N-(C<sub>1-2</sub>-alkyl)-imino group, or

an imidazolyl group optionally substituted by 1 to 3 methyl groups,

C denotes a C<sub>1-6</sub>-alkylene group, a -O-C<sub>1-6</sub>-alkylene group, whilst the alkylene moiety is  
10 linked to the group D, or an oxygen atom, which may not be linked to a nitrogen atom of  
the group D, and

D denotes a pyrrolidino group in which the two hydrogen atoms are replaced in the 2-  
position by a group E, wherein

E denotes a -CH<sub>2</sub>-O-CO-CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>-O-CO-, -CH<sub>2</sub>-O-CO-CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>-O-CO-  
15 CH<sub>2</sub>- or -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-O-CO- bridge optionally substituted by one or two C<sub>1-2</sub>-alkyl  
groups,

20 a pyrrolidino group in which the two hydrogen atoms are replaced in the 3-position by a  
group F, wherein

F denotes a -O-CO-CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>-O-CO-CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>-O-CO-, -O-CO-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-,  
-CH<sub>2</sub>-O-CO-CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>-O-CO-CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-O-CO-, -O-CO-  
25 CH<sub>2</sub>-NR<sub>5</sub>-CH<sub>2</sub>-, -CH<sub>2</sub>-O-CO-CH<sub>2</sub>-NR<sub>5</sub>-, -O-CO-CH<sub>2</sub>-O-CH<sub>2</sub>- or -CH<sub>2</sub>-O-CO-CH<sub>2</sub>-O-  
bridge optionally substituted by one or two C<sub>1-2</sub>-alkyl groups, whilst

R<sub>5</sub> denotes a hydrogen atom or a C<sub>1-4</sub>-alkyl group,

30 a piperidino or hexahydroazepino group, wherein the two hydrogen atoms are replaced in  
the 2-position by a group E, where E is as hereinbefore defined,

a piperidino or hexahydroazepino group, wherein in each case the two hydrogen atoms in the 3-position or in the 4-position are replaced by a group F, where F is as hereinbefore defined,

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a piperazino- or 4-(C<sub>1-4</sub>-alkyl)-piperazino group, wherein the two hydrogen atoms in the 2-position or in the 3-position of the piperazino ring are replaced by a group E, where E is as hereinbefore defined,

- 10 a pyrrolidino or piperidino group, wherein two vicinal hydrogen atoms are replaced by a -O-CO-CH<sub>2</sub>- -CH<sub>2</sub>-O-CO-,  
-O-CO-CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>-O-CO-CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>-O-CO-, -O-CO-CH<sub>2</sub>-NR<sub>5</sub>- or -O-CO-CH<sub>2</sub>-O- bridge optionally substituted by one or two C<sub>1-2</sub>-alkyl groups, whilst R<sub>5</sub> is as hereinbefore defined and the heteroatoms of the above-mentioned bridges are not bound to the 2- or 5-position of the pyrrolidino ring and are not bound to the 2- or 6-position of the piperidino ring,
- 15

- a piperazino or 4-(C<sub>1-4</sub>-alkyl)-piperazino group, wherein a hydrogen atom in the 2-position together with a hydrogen atom in the 3-position of the piperazino ring are replaced by a  
20 -CH<sub>2</sub>-O-CO-CH<sub>2</sub>- or -CH<sub>2</sub>CH<sub>2</sub>-O-CO- bridge optionally substituted by one or two C<sub>1-2</sub>-alkyl groups,

- a piperazino group in which a hydrogen atom in the 3-position together with the hydrogen atom in the 4-position are replaced by a -CO-O-CH<sub>2</sub>CH<sub>2</sub>- or -CH<sub>2</sub>-O-CO-CH<sub>2</sub>- bridge  
25 optionally substituted by one or two C<sub>1-2</sub>-alkyl groups, whilst in each case the left-hand end of the above-mentioned bridges is bound to the 3-position of the piperazino ring,

a pyrrolidino, piperidino or hexahydroazepino group substituted by the group R<sub>6</sub>, wherein

R<sub>6</sub> denotes a 2-oxo-tetrahydrofuranyl, 2-oxo-tetrahydropyranyl, 2-oxo-1,4-dioxanyl or 2-oxo-4-(C<sub>1-4</sub>-alkyl)-morpholinyl group optionally substituted by one or two C<sub>1-2</sub>-alkyl groups,

5 a pyrrolidino group substituted in the 3-position by a 2-oxo-morpholino group, whilst the 2-oxo-morpholino group may be substituted by one or two C<sub>1-2</sub>-alkyl groups,

a piperidino or hexahydroazepino group substituted in the 3- or 4-position by a 2-oxo-morpholino group, whilst the 2-oxo-morpholino group may be substituted by one or two  
10 C<sub>1-2</sub>-alkyl groups,

a 4-(C<sub>1-4</sub>-alkyl)-piperazino or 4-(C<sub>1-4</sub>-alkyl)-homopiperazino group substituted at a ring nitrogen atom by R<sub>6</sub>, wherein R<sub>6</sub> is as hereinbefore defined,

15 a piperazino or homopiperazino group substituted in the 4- position by the group R<sub>7</sub>, wherein

R<sub>7</sub> denotes a 2-oxo-tetrahydrofuran-3-yl, 2-oxo-tetrahydrofuran-4-yl, 2-oxo-tetrahydropyran-3-yl, 2-oxo-tetrahydropyran-4-yl or 2-oxo-tetrahydropyran-5-yl group  
20 optionally substituted by one or two C<sub>1-2</sub>-alkyl groups,

a pyrrolidino group substituted in the 3-position by a (R<sub>5</sub>NR<sub>7</sub>)-, R<sub>7</sub>O-, R<sub>7</sub>S-, R<sub>7</sub>SO- or R<sub>7</sub>SO<sub>2</sub>- group, whilst R<sub>5</sub> and R<sub>7</sub> are as hereinbefore defined,

25 a piperidino or hexahydroazepino group substituted in the 3- or 4-position by a (R<sub>5</sub>NR<sub>7</sub>)-, R<sub>7</sub>O-, R<sub>7</sub>S-, R<sub>7</sub>SO- or R<sub>7</sub>SO<sub>2</sub>- group, wherein R<sub>5</sub> and R<sub>7</sub> are as hereinbefore defined,

a pyrrolidino, piperidino or hexahydroazepino group substituted by a R<sub>6</sub>-C<sub>1-4</sub>-alkyl-,  
30 (R<sub>5</sub>NR<sub>7</sub>)-C<sub>1-4</sub>-alkyl-, R<sub>7</sub>O-C<sub>1-4</sub>-

alkyl-,  $R_7S-C_{1-4}$ -alkyl-,  $R_7SO-C_{1-4}$ -alkyl-,  $R_7SO_2-C_{1-4}$ -alkyl- or  $(R_5NR_7)-CO-$  group, wherein  $R_5$  to  $R_7$  are as hereinbefore defined,

a pyrrolidino group substituted in the 3-position by a  $R_6-CO-NR_4$ ,  $R_6-C_{1-4}$ -alkylene-  
 5  $CONR_4$ ,  $(R_5NR_7)-C_{1-4}$ -alkylene- $CONR_5$ ,  $R_7O-C_{1-4}$ -alkylene- $CONR_5$ ,  $R_7S-C_{1-4}$ -alkylene- $CONR_5$ ,  $R_7SO-C_{1-4}$ -alkylene- $CONR_5$ ,  $R_7SO_2-C_{1-4}$ -alkylene- $CONR_5$ , 2-oxo-morpholino- $C_{1-4}$ -alkylene- $CONR_5$ ,  $R_6-C_{1-4}$ -alkylene-Y or  $C_{2-4}$ -alkyl-Y group, whilst the  $C_{2-4}$ -alkyl moiety of the  $C_{2-4}$ -alkyl-Y group is substituted in each case from position 2 by a  $(R_5NR_7)-$ ,  $R_7O-$ ,  $R_7S-$ ,  $R_7SO-$  or  $R_7SO_2-$  group and the 2-oxo-morpholino moiety may be substituted  
 10 by one or two  $C_{1-2}$ -alkyl groups, wherein

$R_5$  to  $R_7$  are as hereinbefore defined and

Y denotes an oxygen or sulphur atom, an imino, N- $(C_{1-4}$ -alkyl)-imino, sulphinyl or  
 15 sulphonyl group,

a piperidino- or hexahydroazepino group substituted in the 3- or 4-position by a  
 $R_6-CO-NR_5$ ,  $R_6-C_{1-4}$ -alkylene- $CONR_5$ ,  $(R_5NR_7)-C_{1-4}$ -alkylene- $CONR_5$ ,  $R_7O-C_{1-4}$ -alkylene- $CONR_5$ ,  $R_7S-C_{1-4}$ -alkylene- $CONR_5$ ,  $R_7SO-C_{1-4}$ -alkylene- $CONR_5$ ,  $R_7SO_2-C_{1-4}$ -alkylene-  
 20  $CONR_5$ , 2-oxo-morpholino- $C_{1-4}$ -alkylene- $CONR_5$ ,  $R_6-C_{1-4}$ -alkylene-Y or  $C_{2-4}$ -alkyl-Y group, wherein Y is as hereinbefore defined, the 2-oxo-morpholino moiety may be substituted by one or two  $C_{1-2}$ -alkyl groups and the  $C_{2-4}$ -alkyl moiety of the  $C_{2-4}$ -alkyl-Y group is substituted in each case from position 2 by a  $(R_5NR_7)-$ ,  $R_7O-$ ,  $R_7S-$ ,  $R_7SO-$  or  $R_7SO_2-$  group, whilst  $R_5$  to  $R_7$  are as hereinbefore defined,

25 a 4- $(C_{1-4}$ -alkyl)-piperazino or 4- $(C_{1-4}$ -alkyl)-homopiperazino group substituted at a ring nitrogen atom by a  $R_6-C_{1-4}$ -alkyl-,  $(R_5NR_7)-C_{1-4}$ -alkyl-,  $R_7O-C_{1-4}$ -alkyl-,  $R_7S-C_{1-4}$ -alkyl-,  $R_7SO-C_{1-4}$ -alkyl-,  $R_7SO_2-C_{1-4}$ -alkyl- or  $R_5NR_7-CO-$  group, wherein  $R_5$  to  $R_7$  are as hereinbefore  
 30 defined,

a piperazino or homopiperazino group substituted in the 4- position by a  $R_6$ - $C_{1-4}$ -alkyl-,  $R_6$ -CO-,  $R_6$ - $C_{1-4}$ -alkylene-CO-,  $(R_5NR_7)$ - $C_{1-4}$ -alkylene-CO-,  $R_7O$ - $C_{1-4}$ -alkylene-CO-,  $R_7S$ - $C_{1-4}$ -alkylene-CO-,  $R_7SO$ - $C_{1-4}$ -alkylene-CO- or  $R_7SO_2$ - $C_{1-4}$ -alkylene-CO- group, wherein  $R_5$  to  $R_7$  are as hereinbefore defined,

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a piperazino or homopiperazino group substituted in the 4- position by a  $C_{2-4}$ -alkyl group, wherein the  $C_{2-4}$ -alkyl group is substituted in each case from position 2 by an  $(R_5NR_7)$ -,  $R_7O$ -,  $R_7S$ -,  $R_7SO$ - or  $R_7SO_2$ - group, whilst  $R_5$  and  $R_7$  are as hereinbefore defined,

10 a pyrrolidino, piperidino- or hexahydroazepino group substituted by a 2-oxo-morpholino- $C_{1-4}$ -alkyl group, wherein the 2-oxo-morpholino moiety may be substituted by one or two  $C_{1-2}$ -alkyl groups,

15 a pyrrolidino group, substituted in the 3-position by a  $C_{2-4}$ -alkyl-Y group, wherein Y is as hereinbefore defined and the  $C_{2-4}$ -alkyl moiety of the  $C_{2-4}$ -alkyl-Y group is substituted in each case from position 2 by a 2-oxo-morpholino group optionally substituted by one or two  $C_{1-2}$ -alkyl groups,

20 a piperidino or hexahydroazepino group substituted in the 3- or 4-position by a  $C_{2-4}$ -alkyl-Y group, wherein Y is as hereinbefore defined and the  $C_{2-4}$ -alkyl moiety of the  $C_{2-4}$ -alkyl-Y group is substituted in each case from position 2 by a 2-oxo-morpholino group optionally substituted by one or two  $C_{1-2}$ -alkyl groups,

25 a 4- $(C_{1-4}$ -alkyl)-piperazino- or 4- $(C_{1-4}$ -alkyl)-homopiperazino group substituted at a ring nitrogen atom by a 2-oxo-morpholino- $C_{1-4}$ -alkyl group, wherein the 2-oxo-morpholino moiety may be substituted by one or two  $C_{1-2}$ -alkyl groups,

30 a piperazino or homopiperazino group substituted in the 4- position by a 2-oxo-morpholino- $C_{1-4}$ -alkylene-CO group, wherein the 2-oxo-morpholino moiety may be substituted by one or two  $C_{1-2}$ -alkyl groups,

a piperazino or homopiperazino group substituted in the 4- position by a C<sub>2-4</sub>-alkyl group, wherein the C<sub>2-4</sub>-alkyl moiety is substituted in each case from position 2 by a 2-oxo-morpholino group optionally substituted by one or two C<sub>1-2</sub>-alkyl groups,

5 a pyrrolidinyl or piperidinyl group substituted in the 1- position by the group R<sub>7</sub>, by a R<sub>6</sub>-C<sub>1-4</sub>-alkyl-, R<sub>6</sub>-CO-, R<sub>6</sub>-C<sub>1-4</sub>-alkylene-CO-, (R<sub>5</sub>NR<sub>7</sub>)-C<sub>1-4</sub>-alkylene-CO-, R<sub>7</sub>O-C<sub>1-4</sub>-alkylene-CO-, R<sub>7</sub>S-C<sub>1-4</sub>-alkylene-CO-, R<sub>7</sub>SO-C<sub>1-4</sub>-alkylene-CO-, R<sub>7</sub>SO<sub>2</sub>-C<sub>1-4</sub>-alkylene-CO- or 2-oxo-morpholino-C<sub>1-4</sub>-alkylene-CO- group, wherein R<sub>5</sub> to R<sub>7</sub> are as hereinbefore defined and the 2-oxo-morpholino moiety may be substituted by one or  
10 two C<sub>1-2</sub>-alkyl groups,

a pyrrolidinyl or piperidinyl group substituted in the 1- position by a C<sub>2-4</sub>-alkyl group, wherein the C<sub>2-4</sub>-alkyl moiety is substituted in each case from position 2 by a (R<sub>5</sub>NR<sub>7</sub>)-, R<sub>7</sub>O-, R<sub>7</sub>S-, R<sub>7</sub>SO-, R<sub>7</sub>SO<sub>2</sub>- or 2-oxo-morpholino group, whilst R<sub>5</sub> and R<sub>7</sub> are as  
15 hereinbefore defined and the 2-oxo-morpholino moiety may be substituted by one or two C<sub>1-2</sub>-alkyl groups,

a pyrrolidin-3-yl-NR<sub>5</sub>, piperidin-3-yl-NR<sub>5</sub> or piperidin-4-yl-NR<sub>5</sub> group substituted at the ring nitrogen atom in each case by the group R<sub>7</sub>, by a R<sub>6</sub>-C<sub>1-4</sub>-alkyl-, R<sub>6</sub>-CO-, R<sub>6</sub>-C<sub>1-4</sub>-alkylene-CO-, (R<sub>5</sub>NR<sub>7</sub>)-C<sub>1-4</sub>-alkylene-CO-, R<sub>7</sub>O-C<sub>1-4</sub>-alkylene-CO-, R<sub>7</sub>S-C<sub>1-4</sub>-alkylene-CO-, R<sub>7</sub>SO-C<sub>1-4</sub>-alkylene-CO-, R<sub>7</sub>SO<sub>2</sub>-C<sub>1-4</sub>-alkylene-CO- or 2-oxo-morpholino-C<sub>1-4</sub>-alkylene-CO- group, wherein R<sub>5</sub> to R<sub>7</sub> are as hereinbefore defined and the 2-oxo-morpholino moiety may be substituted by one or two C<sub>1-2</sub>-alkyl groups,

25 a pyrrolidin-3-yl-NR<sub>5</sub>, piperidin-3-yl-NR<sub>5</sub> or piperidin-4-yl-NR<sub>5</sub> group substituted in each case at the ring nitrogen atom by a C<sub>2-4</sub>-alkyl group, wherein the C<sub>2-4</sub>-alkyl moiety is substituted in each case from position 2 by a (R<sub>5</sub>NR<sub>7</sub>)-, R<sub>7</sub>O-, R<sub>7</sub>S-, R<sub>7</sub>SO-, R<sub>7</sub>SO<sub>2</sub>- or 2-oxo-morpholino group, whilst R<sub>5</sub> and R<sub>7</sub> are as hereinbefore defined and the 2-oxo-morpholino moiety may be substituted by one or two C<sub>1-2</sub>-alkyl groups,

30 a R<sub>6</sub>-C<sub>1-4</sub>-alkylene-NR<sub>5</sub> group in which R<sub>5</sub> and R<sub>6</sub> are as hereinbefore defined, or



a C<sub>2-4</sub>-alkyl-NR<sub>4</sub> group, wherein the C<sub>2-4</sub>-alkyl moiety is substituted in each case from position 2 by a (R<sub>5</sub>NR<sub>7</sub>)-, R<sub>7</sub>O-, R<sub>7</sub>S-, R<sub>7</sub>SO-, R<sub>7</sub>SO<sub>2</sub>- or 2-oxo-morpholino group, whilst R<sub>5</sub> and R<sub>7</sub> are as hereinbefore defined and the 2-oxo-morpholino moiety may be substituted by one or two C<sub>1-2</sub>-alkyl groups,

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a 2-oxo-morpholin-4-yl group substituted by the group R<sub>8</sub> or by the group R<sub>8</sub> and a C<sub>1-4</sub>-alkyl group, whilst

R<sub>8</sub> denotes a C<sub>3-4</sub>-alkyl, hydroxy-C<sub>1-4</sub>-alkyl, C<sub>1-4</sub>-alkoxy-C<sub>1-4</sub>-alkyl, di-(C<sub>1-4</sub>-alkyl)-amino-C<sub>1-4</sub>-alkyl, pyrrolidino-C<sub>1-4</sub>-alkyl, piperidino-C<sub>1-4</sub>-alkyl, morpholino-C<sub>1-4</sub>-alkyl, 4-(C<sub>1-4</sub>-alkyl)-piperazino-C<sub>1-4</sub>-alkyl, C<sub>1-4</sub>-alkylsulphanyl-C<sub>1-4</sub>-alkyl, C<sub>1-4</sub>-alkylsulphinyl-C<sub>1-4</sub>-alkyl, C<sub>1-4</sub>-alkylsulphonyl-C<sub>1-4</sub>-alkyl, cyan-C<sub>1-4</sub>-alkyl, C<sub>1-4</sub>-alkoxycarbonyl-C<sub>1-4</sub>-alkyl, aminocarbonyl-C<sub>1-4</sub>-alkyl, C<sub>1-4</sub>-alkyl-aminocarbonyl-C<sub>1-4</sub>-alkyl, di-(C<sub>1-4</sub>-alkyl)-aminocarbonyl-C<sub>1-4</sub>-alkyl, pyrrolidinocarbonyl-C<sub>1-4</sub>-alkyl, piperidinocarbonyl-C<sub>1-4</sub>-alkyl, morpholinocarbonyl-C<sub>1-4</sub>-alkyl or a 4-(C<sub>1-4</sub>-alkyl)-piperazinocarbonyl-C<sub>1-4</sub>-alkyl group,

a 2-oxo-morpholin-4-yl group substituted by two groups R<sub>8</sub>, whilst R<sub>8</sub> is as hereinbefore defined and the two groups R<sub>8</sub> may be identical or different,

a 2-oxo-morpholin-4-yl group in which the two hydrogen atoms of a methylene group are replaced by a -(CH<sub>2</sub>)<sub>m</sub>-, -CH<sub>2</sub>-Y-CH<sub>2</sub>-, -CH<sub>2</sub>-Y-CH<sub>2</sub>-CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>-Y-CH<sub>2</sub>CH<sub>2</sub>- or -CH<sub>2</sub>CH<sub>2</sub>-Y-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>- bridge optionally substituted by one or two C<sub>1-2</sub>-alkyl groups, whilst

m denotes the number 2, 3, 4, 5 or 6 and

Y denotes an oxygen or sulphur atom, a sulphinyl, sulphonyl or C<sub>1-4</sub>-alkylimino group,

a 2-oxo-morpholin-4-yl group in which a hydrogen atom in the 5-position together with a hydrogen atom in the 6-position is replaced by a -(CH<sub>2</sub>)<sub>n</sub>-, -CH<sub>2</sub>-Y-CH<sub>2</sub>-,

-CH<sub>2</sub>-Y-CH<sub>2</sub>CH<sub>2</sub>- or -CH<sub>2</sub>-CH<sub>2</sub>-Y-CH<sub>2</sub>- bridge, whilst

Y is as hereinbefore defined and

n denotes the number 2, 3 or 4,

whilst, unless otherwise stated, the aryl moieties mentioned in the definitions of the above-  
5 mentioned groups denote a phenyl group which may be mono- or disubstituted by R<sub>9</sub>,  
whilst the substituents may be identical or different and

R<sub>9</sub> denotes a fluorine, chlorine, bromine or iodine atom, a C<sub>1-2</sub>-alkyl, trifluoromethyl or C<sub>1-2</sub>-alkoxy group, or

10 two groups R<sub>9</sub>, if they are bound to adjacent carbon atoms, together denote a C<sub>3-4</sub>-alkylene, methylenedioxy or 1,3-butadien-1,4-ylene group,

or a tautomer or salt thereof.

15 2. A compound of the formula I according to claim 1, wherein

R<sub>a</sub> denotes a hydrogen atom,

20 R<sub>b</sub> denotes a 1-phenylethyl, 3-methylphenyl, 3-chlorophenyl, 3-bromophenyl or 3-chloro-4-fluorophenyl group,

R<sub>c</sub> denotes a hydrogen atom,

25 X denotes a nitrogen atom,

A denotes a 1,2-vinylene or ethynylene group,

30 B denotes a hydrogen atom,

C denotes an -O-CH<sub>2</sub>CH<sub>2</sub>-, -O-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>- or -O-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>- group, whilst the alkylene moiety in each case is linked to the group D, and

5 D denotes a piperidino group in which the two hydrogen atoms in the 4-position are replaced by a -CH<sub>2</sub>-O-CO-CH<sub>2</sub>,  
-CH<sub>2</sub>CH<sub>2</sub>-O-CO-, -CH<sub>2</sub>CH<sub>2</sub>-O-CO-CH<sub>2</sub>-, -O-CO-CH<sub>2</sub>-NCH<sub>3</sub>-CH<sub>2</sub>- or -O-CO-CH<sub>2</sub>-O-CH<sub>2</sub>- bridge,

10 a piperazino group in which a hydrogen atom in the 3-position together with the hydrogen atom in the 4-position are replaced by a -CO-O-CH<sub>2</sub>-CH<sub>2</sub>- or -CH<sub>2</sub>-O-CO-CH<sub>2</sub>- bridge, whilst in each case the left-hand ends of the above-mentioned bridges are bound to the 3-position of the piperazino ring,

15 a piperidino group which is substituted in the 4-position by a 2-oxo-morpholino or 2-oxo-morpholinomethyl group, whilst the 2-oxo-morpholino moiety may be substituted in each case by one or two methyl groups,

20 a piperazino group which is substituted in the 4-position by a 2-oxo-tetrahydrofuran-3-yl- or 2-oxo-tetrahydrofuran-4-yl group,

a piperidino group which is substituted in the 4-position by a R<sub>6</sub>S group, whilst

R<sub>6</sub> denotes a 2-oxo-tetrahydrofuran-3-yl or 2-oxo-tetrahydrofuran-4-yl group,

25 a piperazino group which is substituted in the 4-position by a 2-oxo-tetrahydrofuranylmethyl or 2-oxo-tetrahydrofuranyl-carbonyl group,

a piperazino group which is substituted in the 4-position by a [2-(2-oxo-tetrahydrofuran-3-ylsulphenyl)ethyl] group,

30

a piperidin-4-yl group which is substituted in the 1-position by a 2-oxo-tetrahydrofuran-3-yl or 2-oxo-tetrahydrofuran-4-yl group,

5 a 2-oxo-morpholin-4-yl group which is substituted by a methoxymethyl or methoxyethyl group,

a 2-oxo-morpholin-4-yl group in which the two hydrogen atoms of a methylene group are replaced by a -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>-O-CH<sub>2</sub>CH<sub>2</sub>- or -CH<sub>2</sub>CH<sub>2</sub>-O-CH<sub>2</sub>CH<sub>2</sub>- bridge,

10 or a tautomer or salt thereof.

3. A compound of the formula I according to claim 1, wherein

15 R<sub>a</sub> denotes a hydrogen atom,

R<sub>b</sub> denotes a 1-phenylethyl or 3-chloro-4-fluorophenyl group,

R<sub>c</sub> denotes a hydrogen atom,

20 X denotes a nitrogen atom,

A denotes a 1,2-vinylene group,

25 B denotes a hydrogen atom,

C denotes an -O-CH<sub>2</sub>CH<sub>2</sub>-, -O-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>- or -O-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>- group, whilst the alkylene moiety in each case is linked to the group D, and

30 D denotes a piperazino group which is substituted in the 4- position by a 2-oxo-tetrahydrofuran-4-yl or 2-oxo-tetrahydrofuran-5-ylcarbonyl group,

or a tautomer or salt thereof.

- 5      4. A compound selected from the group consisting of:

(1) 4-[(3-chloro-4-fluorophenyl)amino]-7-{3-[4-(2-oxo-tetrahydrofuran-4-yl)-piperazin-1-yl]-propyloxy}-6-[(vinylcarbonyl)amino]-quinazoline,

- 10      (2) 4-[(3-chloro-4-fluorophenyl)amino]-7-(2-{4-[(S)-(2-oxo-tetrahydrofuran-5-yl)carbonyl]-piperazin-1-yl}-ethoxy)-6-[(vinylcarbonyl)amino]-quinazoline,

(3) 4-[(R)-(1-phenylethyl)amino]-7-{2-[4-(2-oxo-tetrahydrofuran-4-yl)-piperazin-1-yl]-ethoxy}-6-[(vinylcarbonyl)amino]-quinazoline and

- 15      (4) 4-[(3-chloro-4-fluorophenyl)amino]-7-{2-[4-(2-oxo-tetrahydrofuran-4-yl)-piperazin-1-yl]-ethoxy}-6-[(vinylcarbonyl)amino]-quinazoline,

or a tautomer or salt thereof.

20

5. A physiologically acceptable salt of a compound according claim 1, 2, 3, or 4, formed with an inorganic or organic acid or base.

- 25      6. A pharmaceutical composition containing a compound according claim 1, 2, 3, or 4 or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier or diluent.

- 30      7. A method of treating a benign or malignant tumour, a disease of the respiratory tract or lungs, polyps, a disease of the gastro-intestinal tract, bile duct or gall bladder, a disease of the kidneys or of the skin, which comprises administering a therapeutically effective

amount of a compound according claim 1, 2, 3, or 4 or a pharmaceutically acceptable salt thereof.